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Accession number & update

4731297, B9409-6210L-129, C9409-5620L-044; 940803.

Title

Efficient, real-time address resolution in backbone networks.

Author(s)

Doeringer-W-A; Dykeman-H-D; Peters-M-L; Sandick-H-J; Vu-K-V; Ed. by Onyural-R-O; Nilsson-A.

Author affiliation

IBM Res Div, Zurich, Switzerland.

Source

Proceedings of First International Conference on Local Area Network Interconnection, Research Triangle Park, NC, USA, 20-22 Oct. 1993.

Sponsors: IEEE, IBM, Centre Commun. & Signal Processing, IFIP.

In: p.183-92, 1993.

ISSN

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Publication type

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Treatment codes

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Abstract

This article presents a novel, dynamic address resolution procedure for highspeed, general-topology backbone networks with group management and hardware-supported multicast facilities. By making efficient use of these particular network features, the described procedure induces only minimal communication and processing overhead independent of the size of the backbone network and the number of attached external networks. The procedure further imposes no architectural limit on the set of supported address spaces, and it meets the timing requirements for address resolution of a very wide range of interconnected external networks, including but not limited to, LANs and MANs. (31 refs).

Descriptors

LAN-interconnection; metropolitan-area-networks; telecommunication-network-management.

Keywords

real time address resolution; group management; dynamic address resolution procedure; general topology backbone networks; hardware supported multicast facilities; processing overhead; attached external networks; supported address spaces; timing requirements; LAN; MAN.

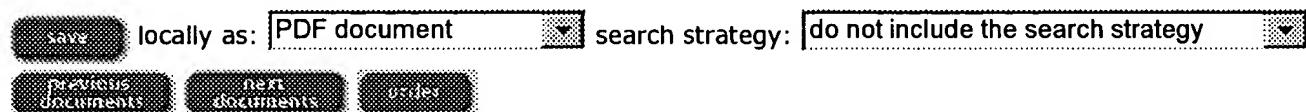
Classification codes

B6210L (Computer communications).

C5620L (Local area networks).

C5620M (Metropolitan area networks).

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